

**2/8/02**

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**Re: 09/888291 US 5,754,023**

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Darcy Bates  
STIC-EIC2800  
306-5419  
CP4-9C 18**

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Terms: **patno=37374** ([Edit Search](#))

*Pat. No. 37374, \**

**RE 37,374**

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September 18, 2001

Gyro-stabilized platforms for force-feedback applications

**INVENTOR:** Boston, Gerald P., Erie, Pennsylvania  
Jacobus, Charles J., Ann Arbor, Michigan

**ASSIGNEE-AT-ISSUE:** Cybernet Haptic Systems Corporation, San Jose, California [02] United States Company or Corporation

**APPL-NO:** 452,682 (Series 9)

**FILED:** November 30, 1999

**REL-US-DATA:**

Reissue of:

Patent No.:	5,754,023
Issued:	May 19, 1998
Appl. No.:	8-736,016
Filed:	October 22, 1996

Provisional Application Ser. No. 60-005,861, October 26, 1995 pending

**INT-CL:** [7] G05B 13#02; B25J 9#00

**US-CL:** 318#561; 318#568.11; 318#649

**CL:** 318

**SEARCH-FLD:** 318#561, 566, 567, 568.1, 568.11, 628, 648, 649; 414#4, 5

**REF-CITED:**

**U.S. PATENT DOCUMENTS**

<u>3,919,691</u>	11/1975	*	Noll	340#172.5
<u>4,443,952</u>	4/1984	*	Schulien et al.	33#324
<u>4,601,206</u>	7/1986	*	Watson	73#514
<u>4,787,051</u>	11/1988	*	Olson	364#518
<u>4,795,296</u>	1/1989	*	Jau	414#5
<u>4,839,838</u>	6/1989	*	LaBiche et al.	364#709.11
<u>4,868,549</u>	9/1989	*	Affinito et al.	340#710

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Source: All Sources > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents [i](#)  
Terms: patno=5754023 ([Edit Search](#))

Pat. No. 5754023, \*

**5,754,023**

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May 19, 1998

Gyro-stabilized platforms for force-feedback applications

**REISSUE:** This Patent was reissued on Sep. 18, 2001 as Reissue Patent Re 37,374.

Reissue Application filed Jun. 21, 2001 (O.G. Aug. 28, 2001) Ex. Gp.: 2837; Re. S.N. 09/888,291

Reissue Application filed Nov. 30, 1999 (O.G. Feb. 15, 2000) Ex. Gp.: 2837; Re. S.N. 09/452,682

**INVENTOR:** Roston, Gerald P., Whitmore Lake, Michigan  
Jacobus, Charles J., Ann Arbor, Michigan

**ASSIGNEE-AT-ISSUE:** Cybernet Systems Corporation, Ann Arbor, Michigan (02)

**ASSIGNEE-AFTER-ISSUE:** Date Transaction Recorded: Feb. 25, 1999  
ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN ARBOR, MICHIGAN 48108  
Reel & Frame Number: 009570/0037

**APPL-NO:** 736,016

**FILED:** Oct. 22, 1996

**INT-CL:** [6] G05B 13#02; B25J 9#00

**US-CL:** 318#561; 318#568.11; 318#649;

**CL:** 318;

**SEARCH-FLD:** 318#561, 567, 568.1, 568.11, 566, 628, 648, 649; 414#4, 5

**REF-CITED:**

**U. S. PATENT DOCUMENTS**

4,443,952	4/1984	*	Schulien et al.	
5,389,865	2/1995	*	Jacobus et al.	318#568.11
5,481,914	1/1996	*	Ward	73#504.16
5,577,981	11/1996	*	Jarvik	482#4

**PRIM-EXMR:** Ro, Bentsu

**LEGAL-REP:** Gifford, Krass, Groh, Sprinkle, Patmore, Anderson&Citkowski

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patno=5754023

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Search statement 1

?nbr /pn usre37374

4 1 USRE37373  
5 1 USRE37374  
6 1 USRE37375  
\*\* SS 2: Results 1

1/1 PLUSPAT - (C) QUESTEL-ORBIT  
PN - USRE37374 E1 20010918 [USRE37374]  
TI - (E1) Gyro-stabilized platforms for force-feedback applications  
PA - (E1) CYBERNET HAPTIC SYSTEMS CORP (US)  
IN - (E1) JACOBUS CHARLES J (US); ROSTON GERALD P (US)  
AP - US45268299 19991130 [1999US-0452682]  
PR - US45268299 19991130 [1999US-0452682]  
- US73601696 19961022 [1996US-0736016]  
- US586195P 19951026 [1995US-P005861]  
IC - (E1) B25J-009/00 G05B-013/02  
PCL - ORIGINAL (O) : 318561000; CROSS-REFERENCE (X) : 318568110 318649000  
DT - Basic  
STG - (E1) Reissue Patent  
UP - 2001-39

1/1 LGST - (C) LEGSTAT  
PN - US 37374 [USRE37374]  
AP - US 452682/99 19991130 [1999US-0452682]  
DT - US-E  
ACT - 19991130 US/AE-A  
APPLICATION DATA (PATENT)  
{US 452682/99 19991130 [1999US-0452682]}  
- 20010918 US/E1 [+]  
REISSUE (PRE-GRANT)  
UP - 2001-40

1/1 PAST - (C) PAST  
AN - 200138-001514  
PN - 5754023 A [US5754023]  
DT - A (UTILITY)  
OG - 2001-09-18  
CO - RE  
ACT - REISSUE PATENT  
SH - REISSUE PATENT  
RL - USRE37374

2/08/02 us 5754023 09/888291

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Search statement 1

?us5754023/pn

\*\* SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image  
PN - US5754023 A 19980519 [US5754023]  
TI - (A) Gyro-stabilized platforms for force-feedback applications  
PA - (A) CYBERNET SYSTEMS CORP (US)  
IN - (A) ROSTON GERALD P (US); JACOBUS CHARLES J (US)  
AP - US73601696 19961022 [1996US-0736016]  
PR - US586195P 19951026 [1995US-P005861]  
- US73601696 19961022 [1996US-0736016]  
IC - (A) B25J-009/00 G05B-013/02  
EC - B25J-009/16T4  
- G05B-013/04B  
PCL - ORIGINAL (O) : 318561000; CROSS-REFERENCE (X) : 318568110 318649000  
DT - Basic  
CT - US4443952; US5389865; US5481914; US5577981  
STG - (A) United States patent  
AB - Force feedback in large, immersive environments is provided by device which a gyro- stabilization to generate a fixed point of leverage for the requisite forces and/or torques. In one embodiment, one or more orthogonally oriented rotating gyroscopes are used to provide a stable platform to which a force-reflecting device can be mounted, thereby coupling reaction forces to a user without the need for connection to a fixed frame. In one physical realization, a rigid handle or joystick is directly connected to the three-axis stabilized platform and using an inventive control scheme to modulate motor torques so that only the desired forces are felt. In an alternative embodiment, a reaction sphere is used to produce the requisite inertial stabilization. Since the sphere is capable of providing controlled torques about three arbitrary, linearly independent axes, it can be used in place of three reaction wheels to provide three-axis stabilization for a variety of space-based and terrestrial applications.

1/1 LGST - (C) LEGSTAT  
PN - US 5754023 [US5754023]  
AP - US 736016/96 19961022 [1996US-0736016]  
DT - US-P  
ACT - 19961022 US/AE-A  
APPLICATION DATA (PATENT)  
{US 736016/96 19961022 [1996US-0736016]}

2/08/02 us 5754023 09/888291

- 19980519 US/A  
PATENT
- 19990225 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN ARBOR,  
MICHIGAN 48108 \* CYBERNET SYSTEMS CORPORATION : 19990222
- 20000215 US/RF  
REISSUE APPLICATION FILED  
19991130
- 20010828 US/RF  
REISSUE APPLICATION FILED  
20010621
- UP - 2001-40

1/1 CRXX - (C) CLAIMS/RRX  
AN - 2981793  
PN - 5,754,023 A 19980519 [US5754023]  
PA - Cybernet Systems Corp  
PT - E (Electrical)  
ACT - 19990225 REASSIGNED  
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: CYBERNET SYSTEMS CORPORATION DATE SIGNED: 02/22/1999

Assignee: CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN ARBOR, MICHIGAN 48108

Reel 009570/Frame 0037

Contact: CYBERNET SYSTEMS CORPORATION CHARLES JACOBUS 727 AIRPORT BLVD. ANN ARBOR, MI 48108

- 19991123 REASSIGNED  
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: ROSTON, GERALD P. DATE SIGNED: 11/04/1999  
JACOBUS, CHARLES J DATE SIGNED: 11/12/1999

Assignee: CYBERNET HAPTIC SYSTEMS CORPORATION 2158 PARAGON DRIVE SAN JOSE, CALIFORNIA 95131

Reel 010395/Frame 0372

Contact: HICKMAN STEPHENS & COLEMAN, LLP PAUL L. HICKMAN PO BOX 52037 PALO ALTO, CA 94303-0746

- 19991130 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20000215  
REISSUE REQUEST NUMBER: 09/452682  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2837

Reissue Patent Number:

- 20010621 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010828  
REISSUE REQUEST NUMBER: 09/888291  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2837

2/08/02        us 5754023        09/888291

Reissue Patent Number:

UP - 1999-27  
UACT- 2001-08-28  
URAS- 2000-12-26

1/3 PAST - (C) PAST  
AN - 200138-001514  
PN - 5754023 A [US5754023]  
DT - A (UTILITY)  
OG - 2001-09-18  
CO - RE  
ACT - REISSUE PATENT  
SH - REISSUE PATENT  
RL - USRE37374

2/3 PAST - (C) PAST  
AN - 200135-001401  
PN - 5754023 A [US5754023]  
DT - A (UTILITY)  
OG - 2001-08-28  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

3/3 PAST - (C) PAST  
AN - 200007-001089  
PN - 5754023 A [US5754023]  
DT - A (UTILITY)  
OG - 2000-02-15  
CO - REA  
ACT - REISSUE APPLICATION FILED  
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Search statement    2

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1 Patent Groups  
\*\* SS 1: Results 2

Search statement    2

?famstate nonstop

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us 5754023

09/888291

1/2 INPADOC - (C) INPADOC  
PN - US 37374 E1 20010918 [US--37374]  
TI - GYRO-STABILIZED PLATFORMS FOR FORCE-FEEDBACK APPLICATIONS  
IN - ROSTON GERALD P [US]; JACOBUS CHARLES J [US]  
PA - CYBERNET HAPTIC SYSTEMS CORP [US]  
AP - US 452682/99-A 19991130 [1999US-0452682]  
PR - US 452682/99-A 19991130 [1999US-0452682]  
- US 736016/96-A5 19961022 [1996US-0736016]  
- US 5861/95-P 19951026 [1995US-P005861]  
IC - G05B-013/02; B25J-009/00

2/2 INPADOC - (C) INPADOC  
PN - US 5754023 A 19980519 [US5754023]  
TI - GYRO-STABILIZED PLATFORMS FOR FORCE-FEEDBACK APPLICATIONS  
IN - ROSTON GERALD P [US]; JACOBUS CHARLES J [US]  
PA - CYBERNET SYSTEMS CORP [US]  
AP - US 736016/96-A 19961022 [1996US-0736016]  
PR - US 736016/96-A 19961022 [1996US-0736016]  
- US 5861/95-P 19951026 [1995US-P005861]  
IC - G05B-013/02; B25J-009/00

1/1 LEGALI - (C) LEGSTAT  
PN - US 5754023 [US5754023]  
AP - US 736016/96 19961022 [1996US-0736016]  
DT - US-P  
ACTE- 19961022 US/AE-A  
APPLICATION DATA (PATENT)  
{US 736016/96 19961022 [1996US-0736016]}  
- 19980519 US/A  
PATENT  
- 19990225 US/AS02  
ASSIGNMENT OF ASSIGNEE'S INTEREST  
CYBERNET HAPTIC SYSTEMS CORPORATION 727 AIRPORT BLVD. ANN ARBOR,  
MICHIGAN 48108 \* CYBERNET SYSTEMS CORPORATION : 19990222  
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- 1. [Business Wire](#), December 15, 1999, Wednesday, 471 words, Cybernet Systems Largest Outside Shareholder in Immersion Corporation, ANN ARBOR, Mich., Dec. 15, 1999
- 2. [Business Wire](#), May 13, 1999, Thursday, 376 words, I-FORCE is Everywhere Peripheral Manufacturers Embrace I-FORCE, LOS ANGELES
- 3. [Business Wire](#), March 16, 1999, Tuesday, 697 words, Immersion Corp. Acquires Cybernet Haptic Systems; Combination Creates Force Feedback Powerhouse, SAN JOSE, Calif.
- 4. [Business Wire](#), March 16, 1999, Tuesday, 431 words, I-FORCE is Everywhere; Peripheral Manufacturers Embrace I-FORCE, SAN JOSE, Calif.

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Source: All Sources > News > News Group File, All [i](#)  
Terms: [5754023 or 5,754,023](#) ([Edit Search](#))  
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*Business Wire December 15, 1999, Wednesday*

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December 15, 1999, Wednesday

**DISTRIBUTION:** Business Editors & High-Tech Writers

**LENGTH:** 471 words

**HEADLINE:** Cybernet Systems Largest Outside Shareholder in Immersion Corporation

**DATELINE:** ANN ARBOR, Mich., Dec. 15, 1999

**BODY:**

Cybernet Systems Corporation today noted its position as the largest outside shareholder of Immersion Corporation (Nasdaq:IMMR), a leading provider of tools and technologies that allow users to physically feel their software.

Cybernet's 9.9% ownership stake in the company is a direct result of Immersion's March 1999 acquisition of Cybernet's Force Feedback business and patent portfolio. Cybernet's 1,396,110 shares are worth \$60 million at the \$43 share price, posted at end of day on December 10, 1999. "We're obviously extremely pleased with the demonstrated return on our investment in Immersion Corporation," noted Dr. Charles Jacobus, president and CEO of Cybernet. "As a company focused on developing and commercializing advanced technology, it was important to us to find a strong partner for our Force Feedback technology. It appears that Immersion has been extremely successful in productizing and widely licensing this technology."

Cybernet's innovations related to Force Feedback are embodied in the comprehensive portfolio of intellectual property acquired by Immersion that includes U.S. Patents No. 5,389,865, No. 5,459,382, No. 5,629,594, No. **5,754,023**, No. 5,769,640, No. 5,831,408, No. 5,844,392, and No. 5,822,438 as well as many pending patent applications. Immersion has since licensed this technology to Logitech, Microsoft and many other leading computer software, peripheral and game manufacturers.

Founded in 1993, Immersion Corporation develops hardware and software technologies that enable users to interact with computers using their sense of touch. Immersion's patented technologies, which it calls TouchSense(TM), enable computer peripheral devices to deliver tactile sensations that correspond to on-screen events. Immersion licenses its TouchSense technology to hardware manufacturers for Web, personal computing, entertainment, medical and other applications.

Cybernet Systems Corp. is a profitable, rapidly growing research and development company focused on commercializing technology that combines software and Internet intelligence with man-machine interaction. Cybernet has successfully leveraged its wealth of intellectual property to bring Force Feedback technology to market in the form of game controllers and joysticks, and introduced the first Linux-based Internet appliance software. The company continues to innovate in the areas of Internet medical systems, large-scale distributed network training and gaming and gesture control interface technology. Additional information on Cybernet Systems is available on the web at <http://www.cybernet.com>. CONTACT:

Cybernet Systems  
Janice Foster, 734/668-2567  
[jfoster@cybernet.com](mailto:jfoster@cybernet.com)  
or  
Sterling Communications  
Rachel Berry, 253/853-5030  
[rberry@sterlingpr.com](mailto:rberry@sterlingpr.com) URL: <http://www.businesswire.com>

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*Business Wire, May 13, 1999*

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May 13, 1999, Thursday

**DISTRIBUTION:** Business Editors/High Tech Writers

**LENGTH:** 376 words

**HEADLINE:** I-FORCE is Everywhere Peripheral Manufacturers Embrace I-FORCE

**DATELINE:** LOS ANGELES

**BODY:**

May 13, 1999--I-FORCE(R), the force feedback technology standard from Immersion(R) Corporation, is on display this week at the Electronic Entertainment Expo in Los Angeles. I-FORCE is the technology that allows joysticks, steering wheels, game pads, flight yokes, mice, and other gaming peripherals to provide realistic FEEL sensations as part of the gaming action. The support of I-FORCE across the gaming industry is quite remarkable at this year's show. In all, there are now 25 brands that produce I-FORCE licensed products including:

-- ACT Labs -- Anko Electronics -- Agiler -- AVB -- Boeder -- CH Products -- Chic -- Genius -- Guillemot -- Happ Controls -- Interactive IO -- KYE -- LMP -- Logitech -- MadCatz -- Mouse Systems -- Padix -- Primax -- Rockfire -- SC&T Int -- SMFC -- Sysgration -- ThrustMaster -- Trust -- Vikings

I-FORCE works by incorporating motors and sophisticated electronics into gaming peripherals. Under the command of the software, the motors push back against the user, simulating the feel of surfaces, liquids, textures, explosions, and countless other sensations. I-FORCE is enhanced by Immersion's patented force feedback co-processor architecture. This proprietary technology allows I-FORCE enabled products to simulate complex feel sensations without slowing the gaming action.

To review the latest updates on the hardware and software support for I-FORCE technology from Immersion Corporation, visit our web site at [www.force-feedback.com](http://www.force-feedback.com) or call 408-467-1900.

I-FORCE technology is protected by the following US Patents: -0-

4,823,634 - 5,185,561 - 5,220,260 - 5,389,865 - 5,414,337 - 5,459,382  
5,559,412 - 5,576,727 - 5,589,854 - 5,623,582 - 5,666,138 - 5,691,898  
5,701,140 - 5,721,566 - 5,731,804 - 5,734,373 - 5,739,811 - **5,754,023**  
5,767,839 - 5,769,640 - 5,805,140 - 5,825,308 - 5,831,408 - 5,844,392  
5,872,438 - 5,880,714

**CONTACT: Immersion (Press Relations)**  
Barry Robbins, 408/467-1900  
[barry@immerse.com](mailto:barry@immerse.com)

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*Business Wire, March 16, 1999*

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Business Wire

March 16, 1999, Tuesday

**DISTRIBUTION:** Business Editors/High-Tech Writers

**LENGTH:** 697 words

**HEADLINE:** Immersion Corp. Acquires Cybernet Haptic Systems; Combination Creates Force Feedback Powerhouse

**DATELINE:** SAN JOSE, Calif.

**BODY:**

Game Developers Conference Booth 1126

March 16, 1999--Immersion Corp. of San Jose, a leading provider of tools and technologies that allow users to physically feel their software, today announced the acquisition of Cybernet Haptic Systems of Ann Arbor, Mich., a subsidiary of Cybernet Systems Corp.

Cybernet has been a leading developer of force feedback systems since 1988 and has pioneered many pivotal technologies for adding feel to mainstream computing environments. This business combination is seen by Immersion as a major milestone in solidifying Immersion's role as the market-leader in feel technology.

"The acquisition of Cybernet is a very exciting step for Immersion," said Dr. Louis Rosenberg, Immersion's president. "Cybernet has been a driving force behind feel simulation for many years -- merging their work with our own will strengthen Immersion's existing as well as launch Immersion into new markets. This as an extremely synergistic business combination."

Dr. Charles Jacobus, president of Cybernet said, "We are looking forward to working with Immersion in the further development of force feedback products and technologies, especially in the Internet and simulation markets."

Cybernet has developed force feedback technologies for many industries, including medical simulation, computer gaming, computer aided design, military simulation, molecular modeling, and automotive engineering.

Their innovations related to feel simulation are embodied in the comprehensive portfolio of intellectual property acquired by Immersion that includes U.S. Patents No. 5,389,865, No. 5,459,382, No. 5,629,594, No. **5,754,023**, No. 5,769,640, No. 5,831,408, No. 5,844,392, and No. 5,822,438 as well as many pending patent applications.

"We are thrilled to add this innovative pool of technology to our I-FORCE and FEELit technology portfolios," said Richard Abramson, director of Litigation and Intellectual Property for Immersion Corp. "This combination of Immersion and Cybernet technologies will enable Immersion to provide our licensees with the world's most diverse and comprehensive range of feel simulation technologies for incorporation into their force feedback peripheral devices."

I-FORCE is the technology unveiled by Immersion in 1995 that turns joysticks, steering wheels, and other computer peripherals into "feel" display devices, allowing users to experience realistic touch sensations. I-FORCE is ideal for computer gaming, enriching software by incorporating feel into the game play experience.

Immersion has licensed I-FORCE to many major makers of home computer gaming peripherals including Logitech, ThrustMaster, CH Products, KYE, SC&T International, ANKO, ACT Labs, Primax, LMP, and others.

Immersion Corp. is also the inventor of the FEELit(R) Mouse, a mouse-style interface that empowers all computer users with the ability to feel their software. From graphic design to surfing the Internet, the FEELit Mouse will fundamentally transform the way people engage their computers, allowing users to take advantage of their natural and informative sense of feel when interacting with software.

For example, the implications of incorporating feel into web applications are vast, from making remote shopping more satisfying, to making educational information more intuitive, to making collaborative design more productive.

Immersion Corp., a privately-held corporation, was founded in 1992 with a mission to develop technologies that add a sense of feel to mainstream computing, enabling users to physically "touch" and "feel" their software. Immersion's technologies address a wide range of applications from computer entertainment and medical simulation, to education and the Internet.

For more information, visit [www.force-feedback.com](http://www.force-feedback.com).

**CONTACT: Immersion Corp.**

Barry Robbins, 408/467-1900  
[barry@immerse.com](mailto:barry@immerse.com)

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*Business Wire, March 16, 1999*

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March 16, 1999, Tuesday

**DISTRIBUTION:** Business Editors & High-Tech Writers

**LENGTH:** 431 words

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**DATELINE:** SAN JOSE, Calif.

**BODY:**

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-- ACT Labs	-- Happ Controls	-- Primax
-- Anko Electronics	-- Interactive IO	-- Rockfire
-- AVB	-- KYE	-- SC&T Int
-- Boeder	-- LMP	-- SMFC
-- CH Products	-- Logitech	-- ThrustMaster
-- Chic	-- MadCatz	-- Trust
-- Genius	-- Mouse Systems	
-- Guillemot	-- Padix	

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5,576,727 - 5,589,854 - 5,623,582 - 5,666,138 - 5,691,898 5,701,140 - 5,721,566 -  
5,731,804 - 5,734,373 - 5,739,811 - **5,754,023** 5,767,839 - 5,769,640 - 5,805,140 -  
5,825,308 - 5,831,408 - 5,844,392 5,872,438 - 5,880,714

**CONTACT: Immersion**

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